# Fuels Workshop on Regulatory and Non-Regulatory Fuels Activities for 2005

**November 3, 2005** 

**California Environmental Protection Agency** 



### **Agenda**

- Introduction
- Gasoline
  - Proposal for Flexibility, Enforceability, and Consistency
  - Predictive Model
  - Permeation
  - Test Methods
  - CARBOB Model Validation
- Diesel
  - Low-Sulfur Implementation
  - Lubricity
- Other Topics?
- Open Discussions
- Closing Remarks

# Discussion Topic: Gasoline

Gasoline

# Proposal for Flexibility, Enforceability, and Consistency

#### **Predictive Model**

- Committed to the Board to review need for update about every 5 years – last updated 1999
- Issues
  - Permeation
  - Carbon Monoxide
  - New Data
  - Emissions Inventory Model EMFAC
- Present Proposal for new model to Board in late 2005 or early 2006

### **Permeation Test Program**

 In 2002, the CRC and ARB co-funded permeation study

#### Results:

- Ethanol fuel higher than MTBE on <u>all</u> vehicles and higher than non-oxy on <u>almost all</u> vehicles
- 65% or 1.4 grams/day more than MTBE gasoline
- 45% or 1.1 grams/day more than non-oxygenated gasoline

#### What's Next

- The CRC is proceeding with a second stage of the test program
- Two additional vehicles: LEV II and PZEV
- Two additional fuels: 10% ethanol and a higher aromatics fuel
- E-85 will also be tested on an flexible fueled vehicle

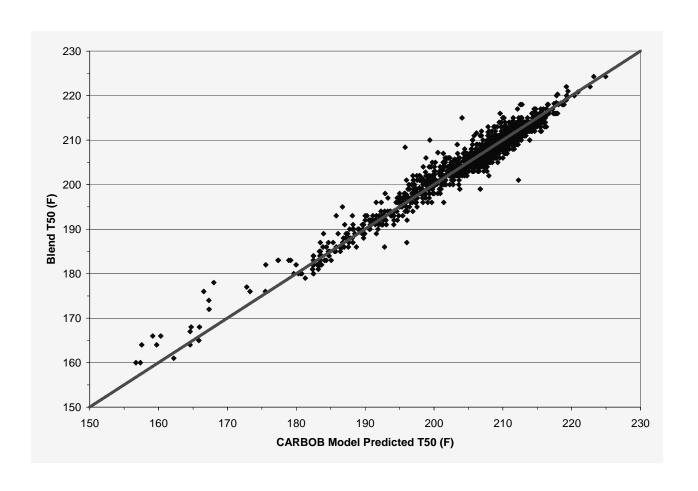
Gasoline

#### **Test Methods**

#### **CARBOB Model Validation**

- CARBOB regulation approved by Board April 25, 2001
- CARBOB regulation allows refiners to certify blends without having to do hand blends of ethanol
- The Board directed staff to validate the CARBOB model using Phase 3 RFG
- Refiners have submitted their data
- Expect work to be finished by the end of the summer

### Measured vs. Predicted T50



# Topics: Diesel

# Implementation of Low-Sulfur Diesel Fuel Regulations

- Low-Sulfur regulation approved by Board in 2003
- Implemented in 2004
- Requires 15 ppmw sulfur limit on California motor vehicle diesel fuel
  - June 1, 2006 Refinery
  - 45 days later Terminals
  - 45 days later Retail Outlets

# Implementation of Low-Sulfur Diesel Fuel Regulations

- Section 2281(g) requires that each producer provide an updated version of their compliance plans to ARB Executive Officer
- So far, all California refiners appear to be on schedule and are expected to meet the June 1, 2006 limit of 15 ppmw

### Lubricity

- ARB approved a lubricity standard for motor vehicle diesel fuel in 2003
- ARB provision sunset when Division of Measurement Standards start enforcement
- Division of Measurement Standards is surveying the statewide diesel fuel pool to assess the current state of lubricity in California

### **Other Topics?**

 California Wintertime Oxygenate requirement for CO Non-Attainment Area - LA

# **Open Discussions**

# **Closing Remarks**